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NOTICE OF ALLOWANCE AND FEE(S) DUE

21091

7590

03/17/2004

JOHN H CROZIER 1934 HUNTINGTON TURNPIKE TRUMBULL, CT 06611 EXAMINER

JONES, JUDSON

PAPER NUMBER

ART UNIT

DATE MAILED: 03/17/2004

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	09/783 179	02/12/2001	Robert Pulford JR.	226-133	6009

TITLE OF INVENTION: LINEAR STEPPER MOTOR AND FIXTURE FOR THE MAGNETIZATION OF THE SHAFT THEREOF AND METHODS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	06/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u>

(703) 746-4000

appropriate. All further cor	rm should be used for trans respondence including the P below or directed otherwise is.	atent, advance orde	ers and notificati	on of maintenance fees v	vill be mailed to the current	t correspondence address as
	E ADDRESS (Note: Legibly mark-up	with any corrections or us	se Block !)	Fee(s) Transmittal. The	mailing can only be used f is certificate cannot be used al paper, such as an assignm	for any other accompanying ent or formal drawing, must
JOHN H CROZII 1934 HUNTINGTO TRUMBULL, CT		have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsing transmitted to the USPTO, on the date indicated below.				
						(Depositor's name)
					·	(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FI	RST NAMED INV	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/783,179	02/12/2001		Robert Pulford	JR.	226-133	6009
	INEAR STEPPER MOTOR					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	<u> </u>	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665		\$300	\$965	06/17/2004
EXAM	IINER	ART UNIT		CLASS-SUBCLASS]	
JONES,	JUDSON	2834		310-012000		
Address form PTO/SB/1: Q "Fee Address" indicati PTO/SB/47; Rev 03-02 (Number is required. 3. ASSIGNEE NAME AND	on (or "Fee Address" Indication more recent) attached. Use PRESIDENCE DATA TO BI an assignee is identified belied to the USPTO or is being st	ion form of a Customer E PRINTED ON TH ow, no assignee dat ubmitted under sepa	agents OR, alt firm (having a agent) and the attorneys or ag will be printed. HE PATENT (pri a will appear on arate cover. Comp		of a single attorney or 2 ered patent d, no name 3 essignee data is only appropriate a substitute for filing an assignment as a single state of the single state of th	iate when an assignment has signment.
Please check the appropriate 4a. The following fee(s) are Issue Fee Publication Fee Advance Order - # of		4b C C	Payment of Fee(s A check in the Payment by cre	s): amount of the fee(s) is end dit card. Form PTO-2038 s hereby authorized by c	is attached. harge the required fee(s), or	
Director for Patents is reque	sted to apply the Issue Fee an					
(Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be			ented from anyo	ne		
other than the applicant; a registered attorney or agent; or the as interest as shown by the records of the United States Patent and Trad This collection of information is required by 37 CFR 1.311. The inobtain or retain a benefit by the public which is to file (and by the application. Confidentiality is governed by 35 U.S.C. 122 and 37 CF estimated to take 12 minutes to complete, including gathering, preprompleted application form to the USPTO. Time will vary dependences. Any comments on the amount of time you require to consuggestions for reducing this burden, should be sent to the Chief Patent and Trademark Office, U.S. Department of Commerce 22113-1450. DO NOT SEND FEES OR COMPLETED FORMS SEND TO. Commissioner for Patents Alexandria Virginia 22313-1450.			or other party Office. ation is required TO to process). This collection and submitting to	to an is		

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09/783,179	•	02/12/2001	Robert Pulford JR.	226-133	6009	
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JOHN H CROZIER				JONES, J	JONES, JUDSON	
1934 HUNTINGTON TURNPIKE TRUMBULL, CT 06611			ART UNIT	PAPER NUMBER		
			2834			
			DATE MAILED: 03/17/200	DATE MAILED: 03/17/2004		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 120 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 120 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Application (a)			
	Application No.	Applicant(s)			
Notice of Allowability	09/783,179	PULFORD, ROBERT			
Notice of Allowability	Examiner	Art Unit			
	Judson H. Jones	2834			
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included			
1. This communication is responsive to the amendment filed	<u>2/9/2004</u> .				
2. The allowed claim(s) is/are <u>23,24 and 26-42</u> .					
3. The drawings filed on are accepted by the Examine	r.				
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	complying with the requirements			
5. A SUBSTITUTE OATH OR DECLARATION must be subminiformal PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF attom is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) including changes required by the Notice of Draftspers		948) attached			
1) hereto or 2) to Paper No./Mail Date					
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	Patent Application (PTO-152) (PTO-413),			
Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail Da 8), 7. 🔀 Examiner's Amendr	te ment/Comment			
4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	ent of Reasons for Allowance			
of Biological Material	9. Other				

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Crozier on 10 March 2004.

The application has been amended as follows: Cancel claims 17-22.

Allowable Subject Matter

Claims 23, 24 and 26-42 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record does not disclose or teach a linear stepping motor having a stator structure including annular disks of a high lubricity material spacing apart elements of the stator structure and serving as bearing surfaces in combination with the other features of claims 23 and 24.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Feucht 3,620,133 A discloses annular disks of a high lubricity material (i.e., Teflon) used as a bearing material with metallic disks interspersed between the high lubricity disks for the purpose of dissipating heat from the high lubricity disks. While utilizing such disks in a prior art shaft type linear motor would produce a device similar to the claimed invention, no motivation has been found for making such a combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judson H. Jones whose telephone number is 571-272-2025. The examiner can normally be reached on 8-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JHJ 3/10/2004